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† ADMITTED IN NEVADA

December 31, 2002

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DAVID W. OSBORNE
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DAVID L. STOTT
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REGISTERED PATENT ATTORNEYS

TODD B. ALDER, PH.D. JONATHAN M. BENNS, PH.D. TECHNICAL CONSULTANTS

CALVIN E. THORPE (1938-1999)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## TRANSMITTAL OF SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is a Second Supplemental Information Disclosure Statement.

Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

- X Form PTO-1449 list of three (3) references submitted for consideration.
- X Legible copies of the listed references or their relevant portions.
- All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

- Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.
- Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.

Statement that certain listed references not enclosed were previously cited by or submitted to the Office in the identified prior application which is relied upon for an earlier filing date under 35 U.S.C. § 120.

In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

X Statement under 37 C.F.R. § 1.97(e)(1) or (2).

Check No. \_\_\_\_ in the amount of \$ (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 31 st day of December, 2002.

Respectfully submitted,

M. Wayne Western

Customer No. 20551

Attorney for Applicant

Registration No. 22,788

Docket No. T8275

Application Ser. No. 09/559,799

THORPE NORTH & WESTERN, L.L.P.

P.O. Box 1219

Sandy, UT 84091-1219

Telephone (801) 566-6633

MWW/WC:kj

APPLICANT:

Ai-Zhi Piao, et al

SERIAL NO.:

09/559,799

FILED:

April 27, 2000

FOR: MIXTURES OF VARIOUS TRIBLOCK POLYESTER POLYETHYLENE GLYCOL COPOLYMERS HAVING IMPROVED GEL

**PROPERTIES** 

ART UNIT:

1616

**EXAMINER:** 

Dewitty, Robert M.

DOCKET NO.:

T8275

**CERTIFICATE OF DEPOSIT** UNDER 37 C.F.R. § 1.8

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212M2

## SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

X 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office

APPLICANT:

Ai-Zhi Piao, et al

SERIAL NO.:

09/559,799

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FILED:

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## PROMPTNESS CERTIFICATE UNDER 37 C.F.R. §1.97(e)

**Assistant Commissioner for Patents** Washington, D.C. 20231

Sir:

I hereby certify that each item contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or

I hereby certify that no item contained in the information disclosure statement was  $_{\mathsf{X}}$ cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual

designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

DATED this 3124 day of December, 2002.

Respectfully submitted,

M. Wayne Western

Attorney for Applicant

Registration No. 22,788

THORPE NORTH & WESTERN, L.L.P.

Customer No. 20,551

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Enc.

Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in §1.17(p); or

\_\_\_\_\_ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in§1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

## Assistant Commissioner of Patents Page 3

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

me alayer what

DATED this 31st day of Ouc., 2002.

Respectfully submitted,

M. Wayne Western

Attorney for Applicant

Registration No. 22,788

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MWW/WC:kj

Enc.

APPLICANT:

Ai-Zhi Piao, et al.

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**GEL PROPERTIES** 

ART UNIT:

1711

**EXAMINER:** 

**DOCKET NO.:** 

T8275

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

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Date of Deposit

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to 37 C.F.R. § 1.97 (b)(1) and (3), within three months of the filing date of the application; and before the mailing date of a first Office

action on the merits; and requests that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

Since all listed references are either in the English language or are accompanied by a translation into English, no concise explanation of relevance is required under 37 C.F.R. § 1.98(a)(3).

## Assistant Commissioner for Patents Page -3-

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

DATED this 18th day of September, 2000.

Respectfully submitted,

ms. Waynos/ sot

M. Wayne Western Attorney for Applicant Registration No. 22,788

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MWW/vm H:\FILES\T8000\T8275\ids#2.wpd disclosure statement, and requests that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

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Since all listed references are either in the English language or are accompanied by a translation into English, no concise explanation of relevance is required under 37 C.F.R. § 1.98(a)(3).

- --8- -

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

DATED this 16th day of November, 2001.

Respectfully submitted,

M. Wayne Western
Attorney for Applicant

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MWW/WC:kj

Sheet 1 of 1

PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. T8275

SERIAL NO. 09/559,799

### LIST OF PRIOR ART CITED BY APPLICANT

SECOND SUPPLEMENTAL

APPLICANT Ai-Zhi Piao, et al.

FILING DATE

GROUP

				April 27, 2000		1616	
			U.S.	PATENT DOCUMENTS		<u></u>	
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A	AS	A Chenite, et 2155-2161, p.	al, "Novel Injectable Nage 2155, column 1, li	Neutral Solutions of Chitosan For nes 5-7.	rm Biodegradable G	els In Situ", Bioma	aterials, 21 (2000)
A	AT	E. Ruel-Garie	py, et al, "Thermosens	itive Chitosan-based Hydrogel C Release, 82 (2002) 373-383, page	ontaining Liposome 374, column 1 Jin	es for the Delivery	of Hydrophilic
					Column 1, IIII	C3 J2*JU.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Notic of R f renc	s Cit d		09/559,799 Examiner		Reexamination PIAO ET AL.  Art Unit	Page 1 of 1
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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### Notic of R f renc s Cited

Application/Control No. 09/559,799

Applicant(s)/Patent Under Reexamination PIAO ET AL.

Examiner

Robert M DeWitty

Art Unit 1616

Page 1 of 1

#### U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-5674192 ~	10-1997	Sahatjian et al	604/28
	В	US-6004573	12-1999	Rathi et al.	424/426
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#### FOREIGN PATENT DOCUMENTS

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#### NON-PATENT DOCUMENTS

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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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PTO-1449	U.S. DEPAR	T OF COMMERCE	Application Number	9,799
	PATENT AND .	.ADEMARK OFFICE	Filing Date	April 27, 2000
LIST OF PR	IOR ART CITED B	Y APPLICANT	First Named Inventor	Ai-Zhi Piao, et al.
	SUPPLEMENTA		Group Art Unit	1711
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(m)	AA	5,702,217	12/30/97	Younsik Cha, et al.			
- XM	AB	6,004,573	12/21/99	Ramesh C. Rathi, et al.			
- Zw	AC	6,117,949	09/12/00	Ramesh C. Rathi, et al.			
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APPLICANT:

Ai-Zhi Piao, et al.

SERIAL NO:

09/559,799

FILED:

April 27, 2000

FOR:

MIXTURES OF VARIOUS
TRIBLOCK POLYESTER
POLYETHYLENE GLYCOL

COPOLYMERS HAVING IMPROVED GEL PROPERTIES

DOCKET NO:

T8275

**GROUP ART UNIT: 1711** 

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

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Karen Jacobson

Date of Deposit

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 (c)

Assistant Commissioner for Patents Washington, D.C. 20231

#### Sir/Madam:

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	1		AB	5,324,519	28 June 1994	Dunn, et al.				
			AC	5,278,202	11 Jan 1994	Dunn, et al.				
			AD	5,100,669	31 March 1992	Hyon, et al.		-		
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			ΑН	4,526,938	2 July 1985	Churchill, e	t al.	-		
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			AN				ole Hydrogels Based on P s, 26(4), 581-589: 1993.	hotopolyme	rized Poly(ethylene g	elycol)-c9-poly(α-
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EXAMINER DATE CONSIDERED MOZ

Parenteral Science & Technology, 43(6), November-December 1989

Pharmaceutical Research 9(3), 1992.

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TP Johnston and SC Miller, Inulin Diposition Following Intramuscular Administration of an Inulin/Poloxamer Gel Matrix, J.

TP Johnston et al., Sustained Delivery of Interleukin-2 from a Poloxamer 407 Gel Matrix Following Intraperitoneal Injection in Mice,

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	PTO-1449  U.S. DEPART: OF COMMERCE PATENT AND TRADEMARK OFFICE	Applicati n Number	09/559,799
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- 1	LIST OF PRIOR ART CITED BY APPLICANT	First Named Inventor	Ai-Zhi Piao
Ī		Group Art Unit	1711
-		Examiner Name	
L	Sheet 2 of 2	Attorney Docket Number	T8275

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